SAFETY DATA SHEETS

This SDS packet was issued with item:

078937544

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

078937545



Material Safety Data Sheet Furosemide Tablets USP, 20 mg, 40 mg and 80mg

Material Safety Data Sheet for Furosemide Tablets USP



Material Safety Data Sheet Furosemide Tablets USP, 20 mg, 40 mg and 80mg

Drug Product:				
Furosemide Tablets USP, 20 mg, 40 mg and 80mg	The drug product meets the specification per USP monograph. Further the drug product is approved by US-FDA			
Excipients:	1 Pregelatinized Starch NF (1551) 2 Sodium Starch Glycolate NF 3 Purified Water USP 4 Corn Starch NF (Purity 826) 5 Microcrystalline Cellulose NF (PH102) 6 Lactose Anhydrous, NF (DT) 7 Colloidal Silicon Dioxide, NF 8 Magnesium Stearate NF All the excipients of the formulation meet USP/NF specifications and are approved by FDA			
Drug Substance- Furosemide Tablets USP	Furosemide Tablets USP meets USP monograph specifications			
MSDS for Furosemide Tablets USP	Refer to the attached MSDS for Furosemide Tablets USP			



SAFETY DATA SHEET

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Issuing Date 29-Oct-2009

Revision Date 06-Jan-2016

Revision Number 12

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Name

FUROSEMIDE

Chemical Name

4-chloro-2-(furan-2-ylmethylamino)-5-sulfamoylbenzoic acid

Synonyms

Aisemide; Aluzine; 5-(Aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)benzoic acid;

Aquamide; Aquasin; Arasemide; Benzoic acid,

5-(aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)-(9Cl); Beronald;

Chlor-N-(2-furylmethyl)-5-sulfamylanthranilsaeure (German);

4-Chloro-N-furfuryl-5-sulfamoylanthranilic acid;

4-Chloro-N-(2-furylmethyl)-5-sulfamoylanthranilic acid; Desdemin; Discoid; Diural; Diuresal; Diurolasa; Dryptal; Durafurid; Errolon; Eutensin; Franyl; Frusemide; Frusemin; Frusetic; Frusid; Fulsix; Fuluvamide; Furanthril; Furanthryl; Furantril; Furesis; Furose; Furosedon; Furosemid; Furosemide; Furosemide "Mita"; Furosemidu (Polish); Furoside; Fursemid; Fursemide; Fusid; Hydrex; Hydrorapid; Impugan; Katlex; Lasex; Lasiletten; Lasilix; Lasix; Laxur; LB 502; Lowpstron; Macasirool; Mollarorin; NCI-C55936; Neo-renal; Nicorol; Nevosemide; Odemase; Prefemin; Profemin; Promedes; Puresis; Radonna; Rosemide;

Salix; Seguril; Sigasalur, Transit; Urex; Urex-M; Uritol; Urosemide

Formula

C 12 H 11 CI N 2 O 5 S

CAS EINECS 54-31-9 200-203-6

Index No

No information available

Reach Registration Number

No information available

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified Use

Active Pharmaceutical Ingredient

Uses advised against

No information available

1.3. Details of the supplier of the safety data sheet

Manufacturer, Supplier

Assia Chemical Industries Ltd. - Teva-Tech site

Neot-Hovav Eco-Industrial Park P.O Box 2049, Emek Sara Be'er Sheva 8412316 Israel

Tel: 972-8-6509555 Fax: 972-8-6509500

For further information, please contact

E-mail Address

SDS,TevalL@teva.co.il

1.4. Emergency Telephone Number

Emergency Telephone Number

972 (8) 6509442

SECTION 2 Gazards dentification

2.1. - Classification of the substance or mixture Classification according to Regulation (EC) No. 1272/2008

Muta. 2 H341 Carc. 2 H351 Repr. 1A H360D

Full text of phrases reported in section 16. Main effects; see sections from 9 to 12.

2.2. Label Elements

Signal Word

Danger



Hazard Statements

H341 - Suspected of causing genetic defects H351 - Suspected of causing cancer H360D - May damage the unborn child

Precautionary Statements

P201 - Obtain special instructions before use P260 - Do not broathe dust

P280 - Wear protective gloves/protective clothing/eye protection/face protection

2.3. Other hazards

None known

SECTION 3: Composition/information on ingredients

3.1. Substances

Chemical Name	EC No.	REACH Reg. No.	CAS-No	Welght %
4-chloro-2-(furan-2-ylmethyl	EEC No. 200-203-6	Not available	54-31-9	100
amino)-5-sulfamoylbenzoic acid				

3.2. Mixtures

N.A.

SECTION 4: First aid measures

4.1. Description of first aid measures

Eye Contact Skin Contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Wash off immediately with soap and plenty of water removing all contaminated clothes and

Ingestion

Clean mouth with water, only if the person is conscious. Get medical attention.

Inhalation

If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Remove from

exposure, lie down.

4.2. Most important symptoms and effects, both acute and delayed

Irritation

May cause irritation. No information available.

Corrosivity Eyes

May cause, blurred vision, Changes in sense acuity.

Skin

May cause: pruritus, skin rash, urticaria, Dermatitis, Photosensitization.

Inhalation

No information available.

Ingestion

May cause; Pancreatitis, Jaundice, Anorexia, Oral and gastric irritation, Abdominal cramps,

diarrhea, constipation, nausea, vomiting, Stomach pain.

4.3. Indication of immediate medical attention and special treatment needed

Notes to Physician

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable Extinguishing Media

Water spray. Carbon dioxide (CO2), Foam, Dry powder.

Unsuitable extinguishing media

No information available.

5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors. Combustible material.

5.3. Advice for firefighters

Special protective equipment for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment, Avoid contact with dusts/fumes/mists/vapors.

6.1.1. For non-emergency personnel

Protective equipment See section 8

Emergency procedures Evacuate the danger area and alert emergency team

6.1.2. For emergency responders

See section 8

6.2. Environmental Precautions

Prevent entry into waterways, sewers, basements or confined areas. Prevent further leakage or spillage if safe to do so.

6.3. Methods and materials for containment and cleaning up

6.3.1. Methods for Containment

No information available.

6.3.2. For cleaning up

Take up mechanically and collect in suitable container for disposal.

6.3.3. Other information

No information available

6.4. Reference to other sections

See Sections 8 & 13 for additional information.

SECTION 7: Handling and storage

7.1. Precautions for Safe Handling

Handling

Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Do not breathe vapors/dust. Provide appropriate exhaust ventilation at places where dust is formed.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Protect from light. Keep in a tight container. Store at Up to 25°C.

7.3. Specific end use(s)

Exposure Scenario
Other Guidelines

No information available. No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits No occupational exposure limit values have been defined by authorities in production

Country.

Biological occupational exposure

limits

Derived No Effect Level (DNEL)

Predicted No Effect Concentration (PNEC)

No information available. No information available.

No information available.

8.2. Exposure controls

Engineering Measures Special Requirements Provide engineering control according to Teva Guidelines.

Avoid exposure of pregnant women.

Personal protective equipment

Eve/face protection Skin protection:

Use eye protection appropriate for the task.

- Body protection

Use protective clothing appropriate for the task. Use appropriate protective gloves.

- Hand protection **Respiratory Protection**

Use appropriate respiratory protection.

Environmental exposure controls

No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Color

Physical State

Odor Odour Threshold

рΗ

Melting Point/Range Boiling Point/Range

Flash Point **Evaporation Rate** Flammability (solid, gas)

Flammability Limits in Air

Upper Lower

Vapor Pressure Vapor Density Relative Density

Solubility

Water Solubility

Octanol/water Partition Coefficient (Log Kow)

330.8

Autoignition Temperature **Decomposition Temperature**

Viscosity

Explosive Properties Oxidizing Properties 9.2. Other information

Molecular Weight

White to slightly yellow crystalline powder

Odourless

No information available No information available

206-210 °C

No information available No information available No information available No information available

No information available No information available No information available No information available No information available

Soluble in Alcohol, Freely Soluble in Dilute alkali solutions.

Slightly soluble in water.

Slightly soluble

1.4

No information available No information available No information available No information available No information available

Revision Date 06-Jan-2016

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical Stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerization does not occur.

10.4. Conditions to avoid

Heat, Exposure to light.

10.5. Incompatible materials.

Strong oxidizing agents.

10.6. Hazardous decomposition products

Toxic fumes of: Nitrogen oxides (NOx), carbon oxides, sulphur oxides, hydrogen chloride.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

acute toxicity

LD50 Oral rat 2600 mg/kg **LD50 Oral mouse** 2000 mg/kg

skin corrosion/irritation
serious eye damage/irritation
respiratory or skin sensitization
No information available.
No information available.

germ cell mutagenicity

No evidence of mutagenicity in non-clinical studies.

carcinogenicity Listed IARC Group 3. Some evidence of carcinogenicity in animal studies.

reproductive toxicity Evidence of teratogenicity in animal studies.

STOT - single exposure
STOT - repeated exposures
aspiration hazard

No information available.
No information available.
No information available.

Other Information

Target Organ Effects Cardiac, Kidney, Bladder, Organ senses, Liver.

Central nervous system May cause tinnitus and hearing loss, May cause xanthopsia, May cause: Paresthesia,

vertigo, dizziness, headache.

Hematological effects May cause: Thrombocytopenia, Hemolytic anemia, Leukopenia, Anemia.

Cardiovascular system May cause: Orthostatic Hypotension.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity effects

No information available.

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

Not expected to bioaccumulate: Log Po/w <3 (EC) or <4 (GHS). Half-Life Elimination in Human: 2h.

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

No information available.

12.6. Other adverse effects

No information available,

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from Residues/Unused

Products

Contaminated Packaging

Dispose of in accordance with local regulations.

Empty containers should be taken for local recycling, recovery or waste disposal.

SECTION 14 Transport information

14.1.

UN-No

Not hazardous for transport

<u>14.2.</u>

Proper Shipping Name

Not hazardous for transport

14.3. Transport hazard class(es)

ADR / RID / ADN (land transport)

IMDG (sea transport)

IATA / ICAO (air transport)

Not hazardous for transport Not hazardous for transport Not hazardous for transport

<u>14.4.</u>

Packing Group

Not hazardous for transport

14.5. Environmental hazards

Marine Pollutant

No information available

14.6. Special precautions for user

Emergency No. ADR/RID-Labels No information available

No information available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Tecnical name Ship type

No information available No information available

Annex II

No information available

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

- Regulation 1907/2006/EC (REACH) and successive modifications
- Regulation 1272/2008 (CLP) and successive modifications
- D.Lgs. 81/2008 and successive modifications and Dir. 2009/161/EU
- REGULATION (EU) 2015/830

15.2. Chemical Safety Assessment

No information available

SECTION 16: Other Information

CLP/GHS - Regulation

Hazard Statements

H341 - Suspected of causing genetic defects

H351 - Suspected of causing cancer

H360D - May damage the unborn child

Training appropriate for workers is required to ensure protection of human health and environment.

Application/Drug Class

Antihypertensive / Diuretic.

Source of data

R.T.E.C.S. - REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES

A.C.G.I.H. - AMERICAN CONFERENCE OF INDUSTRIAL HYGIENISTS

H.S.D.B. - HAZARDOUS SUBSTANCES DATA BANK

N.I.O.S.H. - NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH

N.T.P. - NATIONAL TOXICOLOGY PROGRAM

I.A.R.C. - INTERNATIONAL AGENCY FOR RESEARCH ON CANCER

ECHA (European chemicals agency) databases

FDA (Food & Drug administration) database

EMA (European Medicines agency) documents

ChemAdvisor

Chemspider database

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Revision Note

Not applicable

Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, and disposal of the designated material and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet